

CURRICULUM VITAE

Lawrence Eugene C rnett

BORN:

August 27, 1951
San Francisco, California

MARITAL STATUS:

Married, Rosemary Elizabeth; two children, Melissa Lynn, age 18 and Brian Christopher, age 14

HOME ADDRESS:

14411 Charwick Drive
Little Rock, Arkansas 72212
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WORK ADDRESS:

Department of Physiology and Biophysics
University of Arkansas for Medical Sciences
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Little Rock, Arkansas 72205
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EDUCATION:

1973 B.S.(cum laude) Biology, University of California, Riverside
1978 Ph.D. Physiology, University of California, Davis
1978-1980 Postdoctoral Fellow, Reproductive Endocrinology and Cardiovascular Physiology, University of California, San Francisco

POSITIONS:

1974-1978 Research Assistant/Graduate Student, Department of Human Anatomy, University of California, Davis
1975-1976 Teaching Assistant, Department of Animal Physiology, University of California, Davis
1978-1980 Postdoctoral Fellow, Department of Obstetrics, Gynecology and Reproductive Sciences, Reproductive Endocrinology Center, University of California, San Francisco
1980 Postdoctoral Fellow, Cardiovascular Research Institute, University of California, San Francisco
1980-1985 Assistant Professor, Department of Physiology and Biophysics, University of Arkansas for Medical Sciences
1985-1990 Associate Professor (with tenure), Department of Physiology and Biophysics, University of Arkansas for Medical Sciences
1988 Visiting Scientist (sabbatical leave), Department of Pharmacology, University of Washington, Seattle
1990- Professor (with tenure), Department of Physiology and Biophysics, University of Arkansas for Medical Sciences
1991- Professor, Division of Pulmonary and Critical Care Medicine, Department of Internal Medicine, University of Arkansas for Medical Sciences
1991-1993 Vice Chairman, Department of Physiology and Biophysics, University of Arkansas for Medical Sciences
1993-1995 Acting Chairman, Department of Physiology and Biophysics, University of Arkansas for Medical Sciences
2001-- Director, Arkansas Biomedical Infrastructure Network
2002-- Director, Arkansas Biosciences Institute

CONSULTANTSHIPS:

1982- Ad hoc grant reviewer, National Science Foundation (Physiological Processes Program, Cellular Physiology Program, Regulatory Biology Program, Biochemical Genetics Program)
1985- Referee
American Journal of Anatomy
American Journal of Physiology
Journal of Cellular Physiology
Life Sciences
Kidney International
Peptides
Academic Medicine
Brain Research
Proceedings National Academy of Sciences USA
Molecular Pharmacology
General and Comparative Endocrinology
Comparative Biochemistry and Physiology
Journal of Reproduction and Fertility
Biology of Reproduction
American Journal of Respiratory Cell and Molecular Biology
1986 Ad hoc grant reviewer, Veterans Administration Research Program
1987 Ad hoc Member, NIH Neurological Sciences I Study Section
1990 Ad hoc Member, NIH Endocrinology Study Section
1991- Editorial Board Member, *Journal of Receptor and Signal Transduction Research*
1991 Textbook Reviewer, Little, Brown and Company Publishers
1991-1998 Member, Research Committee of the American Heart Association, Arkansas Affiliate
1992 Textbook Reviewer, W.B. Saunders and Company
1993 Visiting Professor, Department of Animal Physiology, Nagoya University, Japan
1993 Ad hoc Grant Reviewer, Arkansas Science and Technology Authority
1994-1997 Ad hoc Grant Reviewer, Arkansas Children's Hospital Research Institute
1995 Ad hoc Grant Reviewer, Research Council of Canada
1997-1998 Member, American Heart Association Southern Research Peer Review Committee
1999-2001 Member, American Heart Association Great America Research Consortia Peer Review Committee
1999- Ad hoc Grant Reviewer, United States Department of Agriculture
2001- Member, National Science Foundation Neuronal and Glial Mechanisms Scientific Review Panel

TEACHING EXPERIENCE:

Medical School

1981- Medical Physiology (Electrophysiology, Transport and Muscle Lectures)
1988- Physical Medicine and Rehabilitation (Spinal Cord Reflexes)
1990-1993 Course Director, Medical Physiology
2002-- Medical Pharmacology (Human Gene Therapy)
2002-- Medical Cell Biology (Skeletal and Smooth Muscle)

Graduate School

1981- General Physiology (Electrophysiology, Transport and Muscle Lectures)
1983-1984 Physiology and Biophysics Seminar
1985- General Endocrinology (Radioligand Assays)
1986-1994 General Principles of Pharmacology and Toxicology (Signal Transduction)
1986- Advanced Physiology (Neurophysiology Lectures)
1986-1990 Molecular Biophysics (Hormone Action)
1989- Cell Biology (Hormone Action)
1995- Neuropharmacology (Catecholamines)

PROFESSIONAL SOCIETY MEMBERSHIPS:

1974- Society for the Study of Reproduction
1980- American Association for the Advancement of Science
1981- The Endocrine Society
1982- American Physiological Society
1982- Society of the Sigma Xi
1991- Society for Neuroscience
1999- Poultry Science Association

HONORS AND AWARDS:

1979 Loren D. Carlson Prize in Physiology for Excellence in Teaching and Research, Physiology Graduate Group, University of California, Davis
1979-1980 NIH Individual Postdoctoral Fellowship
1980 Travel Award and Invited Symposium Speaker, XXVII International Congress of Physiological Sciences, Budapest, USA International Committee for the International Union of Physiological Sciences
1983 Travel Award, XXIX International Congress of Physiological Sciences, Sydney, USA International Committee for the International Union of Physiological Sciences
1991 Red Sash Award, From the Senior Medical School Class for Excellence in Teaching
1992 Inducted, North Salinas High School Hall of Fame
1993 Red Sash Award, From the Senior Medical School Class for Excellence in Teaching
1996 NIH Fogarty Center-Japan Society for the Promotion of Science Short-Term Fellowship for Biomedical and Behavioral Research in Japan
2000 Research Career Enhancement Award, From the American Physiological Society
2000 Invited Symposium Speaker, VII International Symposium on Avian Endocrinology, Varanasi, India.

COMMITTEE MEMBERSHIPS:

Departmental

1981-1983 Member, Graduate Education Committee
1983-1988 Chairman, Graduate Education Committee
1983- Chairman, Radiation Safety Committee
1985 Chairman, Faculty Search Committee
1988-1989 Chairman, Faculty Search Committee
1992-1993 Chairman, Faculty Search Committee
1995-1996 Member, Faculty Search Committee
1996 Member, Graduate Education Committee
1999- Chairman, Graduate Education Committee

College of Medicine

1981-1985 Member, Promotions Committee for the Class of 1985
1981-1985 Member, Research Council
1982-1985 Chairman, Student Research Subcommittee of the Research Council
1983 Member, Search Committee for the Chair of Anatomy
1985 Member, LCME Self Study Finance Subcommittee
1986 Member, Resource Committee for the Six Year Plan
1987-1989 Member, Research Council
1987-1989 Chairman, Quality Assurance Subcommittee of the Research Council
1987-1988 Member, Neuroscience Coordinating Committee for the Six Year Plan
1987-1990 Member, Administrative Committee of the Molecular Biology Core Instrument Facility
1987-1990 Director, Protein Sequencing Component of the Molecular Biology Core Instrument Facility
1988-1990 Member, Neuroscience Steering Committee
1989-1990 Member, Facilities Strategic Planning Committee
1989-1993 Member, Curriculum Committee
1989-1990 Member, Search Committee for the Chair of Biochemistry and Molecular Biology
1990-1993 Member, Basic Science Course Directors Committee
1991 Member, Search Committee for the Division Director of Radiation Oncology
1991 Member, LCME Self Study Finance Subcommittee
1992-1993 Chairman, Graduate Program Review Committee

1992-1993 Member, Distinguished Faculty Lectureship and Dean's Lectureship Committee
1993-1995 Member, Council of Departmental Chairman
1993- Member, Neuroscience Center Planning Committee
1994 Chairman, Graduate Education Committee for the Six Year Plan
1996- Member, Promotion and Tenure Committee
1997 Member, Search Committee for the Associate Dean of Finance and Administration
1997-1998 Chairman, LCME Self Study Programs for the M.D. Degree Subcommittee
2000-2001 Member, Committee to Merge Anatomy, Microbiology/Immunology and Physiology Graduate Programs
2000-2002 Member, Appeals Board

University

1984-1985 Member, Committee for Graduate Student Recruitment
1988-1989 Member, Graduate School Subcommittee on Programs
1989-1991 Member, Personnel Committee
1991-1992 Member, Rockefeller Distinguished Lecture Series Selection Committee
1998 Member, Ad hoc Faculty Grievance Committee
1999- Member, Conflict of Interest Committee
2000- Member, Biosafety Committee
2000- Member, Graduate Council

GRADUATE STUDENT ADVISOR AS MAJOR PROFESSOR:

1983-1985 Angela Lovett, M.S. in Physiology and Biophysics, Current Position: Staff Anesthesiologist, Southwest Hospital, Little Rock, AR
1987-1990 Robert M. McGehee, Jr., Ph.D. in Physiology and Biophysics, Current Position: Associate Professor of Pediatrics, University of Arkansas for Medical Sciences
1988-1990 S. Paul Rossby, Ph.D. in Physiology and Biophysics, Current Position: Postdoctoral Fellow, Department of Psychiatry, Vanderbilt University
1990-1994 Chun-ling Deng, Ph.D. in Physiology and Biophysics, Current Position: Resident, Department of Pathology, University of Rochester
1990-2001 Ellen Randall, M.S. in Physiology and Biophysics
1995-2000 Wenhui Cao, Ph.D. in Physiology and Biophysics, Current Position: Postdoctoral Fellow, Beth Israel Hospital, Harvard University.
1995-2000 Fenlai Tan, Ph.D. in Physiology and Biophysics, Current Position: Postdoctoral Fellow, Cleveland Clinic Foundation

GRADUATE STUDENT ADVISOR AS THESIS COMMITTEE MEMBER:

1980-1982 Danny J. Garmer, M.S. in Physiology and Biophysics
1985-1988 Nick Skoulis, Ph.D. in Pharmacology and Interdisciplinary Toxicology
1985-1988 Henry F. Simmons, Jr., Ph.D. in Pharmacology and Interdisciplinary Toxicology
1986-1989 Eric Evans, Ph.D. in Pharmacology
1986-1990 George Blevins, Ph.D. in Physiology and Biophysics
1988-1991 Stuart Roch, M.D. and Ph.D. in Pharmacology
1989-1994 Song-Chang Lin, Ph.D. in Biochemistry and Molecular Biology
1990-1994 Pamela McMillan, Ph.D. in Biochemistry and Molecular Biology
1991-1994 Nancy Reese, Ph.D. in Anatomy
1992-1994 Anthony Williamson, Ph.D. in Pharmacology
1992-1994 Tracie A. Kinard, Ph.D. in Pharmacology
1995-1999 Yinxian Wang, Ph.D. in Biochemistry and Molecular Biology
1995-2000 Robert Cowherd, M.D., Ph.D. in Physiology and Biophysics
1996-1999 Joel Proksch, Ph.D. in Pharmacology
1996-2000 Stephanie Miller, Ph.D. in Physiology and Biophysics
1997-2000 Anna Dobretsova, Ph.D. in Physiology and Biophysics
1998-2000 Todd Howren, Ph.D. in Physiology and Biophysics
1998- Greg Burton, Ph.D. Candidate in Physiology and Biophysics
1998-2002 Fred Buzen, Ph.D. Candidate in Biochemistry and Molecular Biology

POSTDOCTORAL FELLOWS:

1990-1992 Dennis McGraw, M.D., Pulmonary Medicine Fellow, Current Position: Assistant Professor of Medicine, University of Arkansas for Medical Sciences
1992-1994 Sandra Chai, M.D., Pulmonary Medicine Fellow, Current Position: Private Practice, Little Rock, AR
1993-1996 Aliza Dicker-Brown, Ph.D., Physiology and Biophysics Fellow, Current Position: Fellow, Department of Medicine, Little Rock Veterans Affairs Hospital.
1995-1996 Tyrone Lee, M.D., Pulmonary Medicine Fellow, Current Position: Private Practice, Conway, AR

VISITING SCIENTISTS:

1991-1992 Dennis A. Baeyens, Ph.D., Professor of Biology, University of Arkansas, Little Rock
1992-1995 Billy Thomas, M.D., Associate Professor of Pediatrics, UAMS
1998 Noboru Saito, Ph.D., Associate Professor of Animal Physiology, Nagoya University, Nagoya, Japan
1999 Chandra Mohini Chaturvedi, Professor of Zoology, Banaras Hindu University, Varanasi, India.
2000 Chandra Mohini Chaturvedi, Professor of Zoology, Banaras Hindu University, Varanasi, India.

GRANT SUPPORT (current):

USDA CSREES 2001-00955 "Neuroendocrine Control of Shell Gland Contractility in the Domestic Hen", Principal Investigator, 25%, \$75,000, 9/01/01-8/31/03.
NIH K23 AI01818-01 "Beta2-Adrenergic Receptor Down Regulation in Asthma", (PI, Stacie M. Jones, M.D.), Mentor, 10%, \$500,000, 7/1/00-6/30/04.

NIH P20 RR16460-01 "Partnerships for Biomedical Research in Arkansas", Principal Investigator, 30%, \$4,943,336, 9/30/01-10/31/04.

NSF IBN-0111006 "Cloning and Functional Characterization of an Avian Pituitary Gland Vasotocin Receptor", Principal Investigator, 40%, \$580,368, 6/01/02-5/31/05.

GRANT SUPPORT (previous):

NSF ISP8011447 "Neuroscience Component of EPSCOR"
Co-investigator, 10%, \$18,140; 2/1/82-12/31/83

NIH R01 AM30415 "Endocrinologic Studies of the Gastrointestinal Tract"
Co-investigator, 10%, \$447,385; 2/1/82-1/31/87

NIH R01 GM30669 "Adrenergic Receptors in a Smooth Muscle Cell Line"
Principal Investigator, 40%, \$214,631; 12/1/83-11/30/86

NSF DMB8414646 "Neurobiology Core Facility"
Principal Investigator, \$37,000; 4/1/85-3/31/86

NIH R01 DK34507 "Biochemical Studies of Vasopressin Receptors"
Principal Investigator, 40%, \$166,287; 4/1/85-3/31/88

NSF DCB8617476 "Neurohypophysial Function in Aves"
Co investigator, 10%, \$209,000; 3/1/87-2/28/90

NIH R01 GM30669 "Adrenergic Receptors in a Smooth Muscle Cell Line"
Principal Investigator, 40%, \$467,419; 7/1/87-6/30/91

American Heart Association AR87G8 "Cloning of cDNA for the Cardiac α_1 -Adrenergic Receptor"
Principal Investigator, 10%, \$48,040; 7/1/87-6/30/89

NIH R03 DK39803 "Molecular Properties of Calcium Channels"
Visiting Scientist, 100%, \$25,000; 3/1/88-8/31/88

American Heart Association AR89G03 "Molecular Studies of the Cardiac α_1 -Adrenergic Receptor"
Principal Investigator, 10%, \$47,050; 7/1/89-6/30/91

NSF RII8922108 "Arkansas EPSCoR: Neurobiology Research Center"
Co principal investigator, 10%, \$1,171,875; 4/1/90-3/31/95.

NSF DCB 9017814 "Neurohypophyseal Peptides in the Domestic Fowl"
Co principal investigator, 5%; \$336,903; 2/15/91-2/14/95.

NIH R01 GM30669 "Adrenergic Receptors in a Smooth Muscle Cell Line"
Principal Investigator, 30%, \$432,963, 8/1/91-7/31/95.

NIH R01 GM30669 (Supplement) "Adrenergic Receptors in a Smooth Muscle Cell Line"
Principal Investigator, 20%, \$158,333, 6/1/92-7/31/95.

International Human Science Frontier Program SF-214/93 "Molecular and Immunohistochemical Study on Expression of GnRH and AVT Genes", \$8,092, 8/15/94-11/15/94.

NSF STI-9414911 "Renovation of Neurobiology Laboratories for Research and Training in Arkansas" co-Investigator, \$796,537, 10/1/94-5/31/96.

NSF IBN-9727915 "Neurohypophyseal Hormone Function and Receptors in Chickens" Principal Investigator, 45%, \$120,000, 3/15/98-9/14/99.

USDA IN-AES-866 "Molecular Biology of Neuroendocrine System in Poultry Birds", (PI, Chandra Chaturvedi, Ph.D.), Cooperating Scientist, 15%, \$55,273, 5/1/98-4/30/01.

AHA "Beta2-Adrenergic Receptor Down Regulation and Membrane Trafficking", (PI, Stacie M. Jones, M.D.), co-Investigator, 10%, \$70,000, 7/1/99-6/30/01.

GRANT SUPPORT (pending)

NIH P20 RR016460-03S1 "Partnership for Biomedical Research in Arkansas—BRIN Supplement", Principal Investigator, 0% effort, \$1,999,292, 9/30/02-9/30/04.

PATENTS/INVENTIONS

Cornett, L.E., Hiller, F.C. and Jones, S.M. Recombinant β_2 -Adrenergic Receptor Delivery and Use in Treating Airway and Vascular Diseases, U.S. Patent Application Filed February 15, 2001.

FULL-LENGTH PAPERS:

- 1) Lui, C.W., L.E. Cornett, and S. Meizel. Identification of the bovine follicular fluid protein involved in the *in vitro* induction of the hamster sperm acrosome reaction. *Biology of Reproduction* 17:34-41, 1977.
- 2) Cornett, L.E. and S. Meizel. Stimulation of *in vitro* activation and the acrosome reaction of hamster spermatozoa by catecholamines. *Proceedings of the National Academy of Sciences, USA* 75:4854-4958, 1979.
- 3) Cornett, L.E., B.D. Bavister, and S. Meizel. Adrenergic stimulation of fertilizing ability of hamster spermatozoa. *Biology of Reproduction* 20:925-929, 1980.
- 4) Cornett, L.E. and S. Meizel. 9-AAP, a fluorescent β -adrenergic antagonist, enters the hamster sperm acrosome in a manner inconsistent with binding to β -adrenergic receptors. *Journal of Histochemistry and Cytochemistry* 28:462-464, 1980.
- 5) Cheng, J.B., L.E. Cornett, A. Goldfien, and J.M. Roberts. Decreased concentration of myocardial α -adrenergic receptors with increasing age in fetal lambs. *British Journal of Pharmacology* 70:515-517, 1980.
- 6) Cheng, J.B., A. Goldfien, L.E. Cornett, and J.M. Roberts. Identification of β -adrenergic receptors using [3 H]-dihydroalprenolol in fetal sheep heart: Direct evidence of qualitative similarity to the receptors in adult sheep heart. *Pediatric Research* 15:1083-1087, 1981.
- 7) Cornett, L.E., A. Goldfien, and J.M. Roberts. Rabbit myometrial adrenergic receptors are tonically inhibited *in vivo*. *Nature (London)* 292:623-625, 1981.
- 8) Cornett, L.E. and J.S. Norris. Characterization of the α_1 -adrenergic receptor subtype in a smooth muscle cell line. *Journal of Biological Chemistry* 257:694-697, 1982.
- 9) Smith, K.A., L.E. Cornett, J.S. Norris, L.W. Byers, and E.E. Muirhead. Blockade of alpha-adrenergic receptors by analogues of phosphatidylcholine. *Life Sciences* 31:1891-1902, 1982.
- 10) Cornett, L.E., D.W. Ball, and J.S. Norris. α_1 -Adrenergic receptors of a smooth muscle cell line: Guanine nucleotides do not regulate agonist affinities. *Journal of Receptor Research* 2:601-615, 1982.
- 11) Dorsa, D.M., L.A. Majumdar, F.M. Petracca, D.G. Baskin, and L.E. Cornett. Characterization and localization of [3 H]-arginine⁸-vasopressin binding to rat kidney and brain. *Peptides* 4:699-706, 1983.
- 12) Norris, J.S., D.J. Garmer, F. Brown, K. Popovich, and L.E. Cornett. Characteristics of an adenylate cyclase coupled β_2 -adrenergic receptor in a smooth muscle tumor cell line. *Journal of Receptor Research* 3:623-645, 1983.
- 13) Dorsa, D.M., F.M. Petracca, D.G. Baskin and L.E. Cornett. Localization and characterization of vasopressin binding sites in the amygdala of the rat. *Journal of Neuroscience* 4: 1764-1770, 1984.
- 14) Norris, J.S., L.E. Cornett, J.W. Hardin, P.O. Kohler, S.L. MacLeod, A. Srivastava, A.J. Syms, and R.G. Smith. Autocrine regulation of growth. II. Glucocorticoids inhibit transcription of c-sis oncogene specific RNA transcripts. *Biochemical and Biophysical Research Communications* 122:124-128, 1984.
- 15) Popovich, K.L., C. Hiller, A. Hough, J.S. Norris, and L.E. Cornett. Characterization of a β -adrenergic receptor in porcine trachealis muscle. *American Journal of Physiology* 247:C342-C349, 1984.
- 16) Cornett, L.E. and D.M. Dorsa. Vasopressin receptor subtypes in dorsal hindbrain and renal medulla. *Peptides* 6:85-89, 1985.
- 17) Cornett, L.E. and J.S. Norris. Photoaffinity labeling of the DDT₁ MF-2 cell α_1 -adrenergic receptor. *Molecular and Cellular Biochemistry* 67:47-53, 1985.
- 18) Norris, J.S., L.E. Cornett, P.O. Kohler, S.L. MacLeod, A.J. Syms, and R.G. Smith. Glucocorticoids induce a 29,000 M_r protein in DDT₁ MF-2 cells but not in DDT₁ MF-2 GR glucocorticoid resistant variant. *Molecular and Cellular Biochemistry* 68:79-85, 1985.
- 19) Light, K.E., L.E. Cornett, and J.S. Norris. Characterization of [3 H] spiperone binding to alpha₁-adrenergic receptors in a smooth muscle cell line. *Journal of Receptor Research* 5:335-348, 1985.

- 20) Cornett, L.E. and J.S. Norris. Affinity labeling of the DDT₁ MF-2 cell α_1 -adrenergic receptor with [³H] phenoxybenzamine. *Biochemical Pharmacology* 35:1663-1669, 1986.
- 21) Cornett, L.E. and D.M. Dorsa. Regulation of [³H] arginine⁸ vasopressin binding to rat renal medulla by guanine nucleotides. *Journal of Receptor Research* 6:127-140, 1986.
- 22) Norris, J.S., P. Brown, J. Cohen, L.E. Cornett, P.O. Kohler, S.L. MacLeod, K. Popovich, R.B. Robey, M. Sifford, A.J. Syms, and R.G. Smith. Glucocorticoid induction of β -adrenergic receptors in the DDT₁ MF-2 smooth muscle cell line involves synthesis of new receptor. *Molecular and Cellular Biochemistry*. 74:21-27, 1987.
- 23) Cornett, L.E. and J.S. Norris. Role of a guanine nucleotide binding protein in α_1 -adrenergic receptor mediated Ca²⁺ mobilization in DDT₁ MF-2 cells. *Proceedings of the Society for Experimental Biology and Medicine*. 186:157-164, 1987.
- 24) Sawutz, D.G., L.M. Sera, L.E. Cornett, and R.M. Graham. Alpha₁-adrenergic receptor photoaffinity labeling in intact cells. *Biochemical Pharmacology* 36:4027-4032, 1987.
- 25) Koike, T.I., K. Shimada, and L.E. Cornett. Plasma levels of immunoreactive mesotocin and vasotocin during oviposition in chickens: Relationship to oxytocic action of the peptides *in vitro* and peptide interaction with myometrial membrane binding sites. *General and Comparative Endocrinology* 70:119-126, 1988.
- 26) Cornett, L.E. and C.M. Cates. Direct identification of the rat hepatocyte arginine⁸ vasopressin receptor with a radiolabeled V₁ selective antagonist. *Journal of Receptor Research* 9:1-18, 1989.
- 27) Scheving, L.A., T.H. Tsai, L.E. Cornett, R.J. Feures, and L.E. Scheving. Circadian variation of epidermal growth factor receptor in mouse liver. *The Anatomical Record* 224:459-465, 1989.
- 28) Cornett, L.E., S.M. Breckinridge, and T.I. Koike. Induction of V₂ receptors in renal medulla of homozygous Brattleboro rats by arginine vasopressin. *Peptides* 10:985-991, 1989.
- 29) Vesely, D.L., L.E. Cornett, S.L. MacLeod, A.A. Nash, and J.S. Norris. Specific binding sites for prohormone atrial natriuretic peptides 1-30, 31-67 and 99-126. *Peptides* 11:193-197, 1990.
- 30) McGehee, R.E., Jr., S.P. Rossby, and L.E. Cornett. Detection by Northern analysis of α_1 -adrenergic receptor gene transcripts in the rat. *Molecular and Cellular Endocrinology* 74:1-9, 1990.
- 31) McGehee Jr., R.E. and L.E. Cornett. Alternative mRNAs encoding the α_{1b} -adrenergic receptor are expressed in a tissue-dependent manner in the Sprague-Dawley rat. *Journal of Receptor Research* 11:773-790, 1991.
- 32) Rossby, S.P. and L.E. Cornett. Steady state levels of hepatic α_1 - and β_2 -adrenergic receptors and gene transcripts during development of the male rat. *Journal of Cellular Physiology* 147:55-61, 1991.
- 33) Kimball, K.A., L.E. Cornett, E. Seifen, and R.H. Kennedy. Aging: Changes in cardiac α_1 -adrenoceptor responsiveness and expression in the F-344 rat. *European Journal of Pharmacology Molecular Pharmacology Section* 208:231-238, 1991.
- 34) Norris, J.S., S.L. MacLeod, W.-M. Fan, D.A. Schwartz, T.J. O'Brien, S.E. Harris, R. Trifiletti, L.E. Cornett, T. Cooper, W.M. Levi, R.G. Smith. Cloning and characterization of a μ class glutathione S-transferase cDNA, a glucocorticoid secondary response gene induced in a smooth muscle tumor cell line. *Molecular Endocrinology* 7:979-986, 1991.
- 35) Hendry, W.J., III, R. Hakkak and L.E. Cornett. Selective loss of glucocorticoid-dependent responses in a variant of the DDT₁ MF-2 tumor cell line. *Cancer Research* 52:2516-2522, 1992.
- 36) Badger, T.M. and L.E. Cornett. Hormonal desensitization: Comparison of the gonadotropin-hormone-releasing-hormone and β -adrenergic receptor-effector system. *Molecular and Cellular Neurosciences*. 3:91-105, 1992.
- 37) Baeyens, D.A. and L.E. Cornett. Transcriptional and post-transcriptional regulation of hepatic β_2 -adrenergic receptor gene expression. *Journal of Cellular Physiology* 157:70-76, 1993.
- 38) Deng, C.-L. and L.E. Cornett. Two α_{1b} -adrenergic receptor mRNAs expressed in Sprague-Dawley rat liver have distinct 5'-regions. *Journal of Receptor Research* 14:119-137, 1994.

39) Chaturvedi, C.M., B.M. Newton, L.E. Cornett, and T.I. Koike. An *in situ* hybridization and immunohistochemical study of vasotocin neurons in the hypothalamus of water-deprived chickens. *Peptides* 15:1179-1187, 1994.

40) Chaturvedi, C.M., T.I. Koike, and L.E. Cornett. Arginine vasotocin gene expression in neuroendocrine, gastrointestinal and reproductive tissues of the domestic fowl: detection by reverse transcriptase polymerase chain reaction. *Neuroscience Letters* 178:247-250, 1994.

41) Deng, C.-L. and L.E. Cornett. Regulation of α_{1b} -adrenergic receptor gene expression in rat liver cell lines. *Biochimica et Biophysica Acta* 1219:669-676, 1994.

42) McGraw, D.W., S.E. Chai, F.C. Hiller, and L.E. Cornett. Differential regulation of the β_2 -adrenergic receptor and its mRNA in the rat lung by dexamethasone. *Experimental Lung Research* 21:535-546, 1995.

43) Baeyens, D.A. and L.E. Cornett. Association of hepatic β_2 -adrenergic receptor gene transcript destabilization during postnatal development in the Sprague-Dawley rat with a M_r 85,000 protein that binds selectively to the β_2 -adrenergic receptor mRNA 3'-untranslated region. *Journal of Cellular Physiology* 163:305-311, 1995.

44) McGraw, D.W., S.E. Jacobi, F.C. Hiller, and L.E. Cornett. Structural and functional analysis of the 5'-flanking region of the rat β_2 -adrenergic receptor gene. *Biochimica et Biophysica Acta* 1305:135-138, 1996.

45) Chaturvedi, C.M., Z. Zheng, K. Shimada, L.E. Cornett, and T.I. Koike. Changes in poly(A) tail length of arginine vasotocin ribonucleic acid in the hypothalamus of water deprived chickens. *General and Comparative Endocrinology* 103:316-322, 1996.

46) Jaccoby, S., A.B. Singh, L.E. Cornett, and T.I. Koike. Arginine vasotocin gene expression and secretion during osmotic stimulation and hemorrhagic hypotension in hens. *General and Comparative Endocrinology* 106:327-337, 1997.

47) Shelton, S.R., L.E. Cornett, and S.M. Owens. Phencyclidine continuous dosing produces a treatment time-dependent regulation of rat CYP2C11 function, protein expression and mRNA levels. *Journal of Pharmacology and Experimental Therapeutics* 281:574-581, 1997.

48) Jones, S.M., C.-L. Deng, V. MacLeod, and L.E. Cornett. Evidence for alternative splicing in hepatic α_{1B} -adrenergic receptor gene expression. *Journal of Receptor and Signal Transduction Research* 17:815-832, 1997.

49) Chaturvedi, C.M., L.E. Cornett, and T.I. Koike. Arginine vasotocin gene expression in hypothalamic neurons is up-regulated in chickens drinking hypertonic saline: An *in situ* hybridization study. *Peptides* 18:1383-1388, 1997.

50) Baeyens, D.A., D.W. McGraw, S.E. Jacobi, and L.E. Cornett. Transcription of the β_2 -adrenergic receptor gene in rat liver is regulated during early postnatal development by an upstream repressor element. *Journal of Cellular Physiology* 175:333-340, 1998.

51) Cornett, L.E., F.C. Hiller, S.E. Jacobi, W. Cao, and D.W. McGraw. Identification of a glucocorticoid response element in the rat β_2 -adrenergic receptor gene. *Molecular Pharmacology* 54:1016-1023, 1998.

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